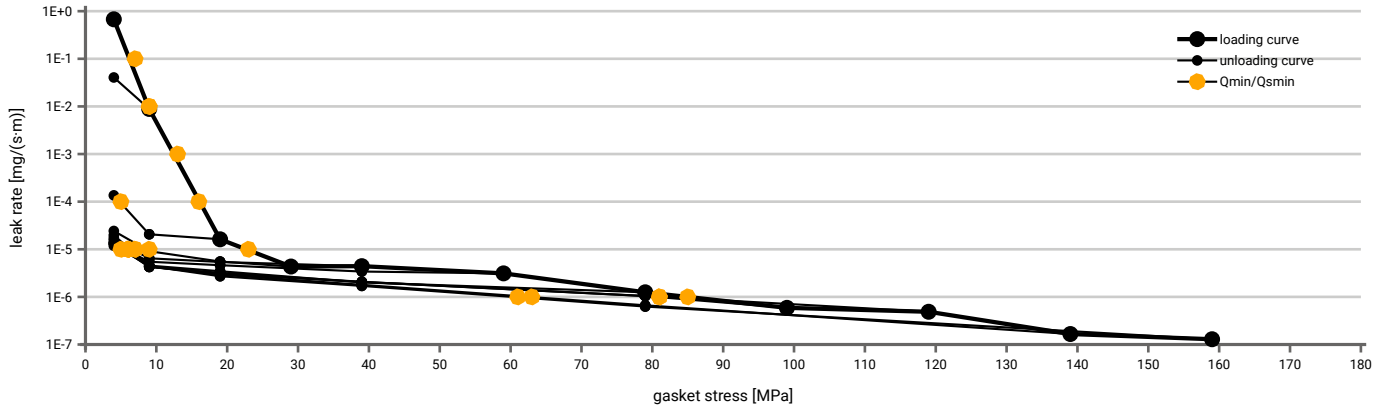
| Manufacturer address | Garlock GmbH, Falkenweg 1, 41468 Neuss, DE | According to DIN EN 13555 2005-2 |
|---|---|---|
| Product name | Gylon® Style 3510 | |
| Product dimensions | 92 x 49 x 2 mm (DIN EN 1514-1 1997-8) | |

**Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 10 bar (T = 23 ± 2 °C)**

| L [mg/(s·m)] | $Q_{min(L)}$ [MPa] | $Q_{smin(L)}$ [MPa] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | $Q_A$ = 5 [MPa] | $Q_A$ = 10 [MPa] | $Q_A$ = 20 [MPa] | $Q_A$ = 30 [MPa] | $Q_A$ = 40 [MPa] | $Q_A$ = 60 [MPa] | $Q_A$ = 80 [MPa] | $Q_A$ = 100 [MPa] | $Q_A$ = 120 [MPa] | $Q_A$ = 140 [MPa] | $Q_A$ = 160 [MPa] |
| 1E-0 | 5 | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1E-1 | 7 | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1E-2 | 10 | | 9 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1E-3 | 13 | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1E-4 | 17 | | | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1E-5 | 23 | | | | 9 | 7 | 6 | 6 | 6 | 6 | 7 | 7 |
| 1E-6 | 86 | | | | | | | | 81 | 82 | 63 | 61 |
| 1E-7 | | | | | | | | | | | | |
| 1E-8 | | | | | | | | | | | | |

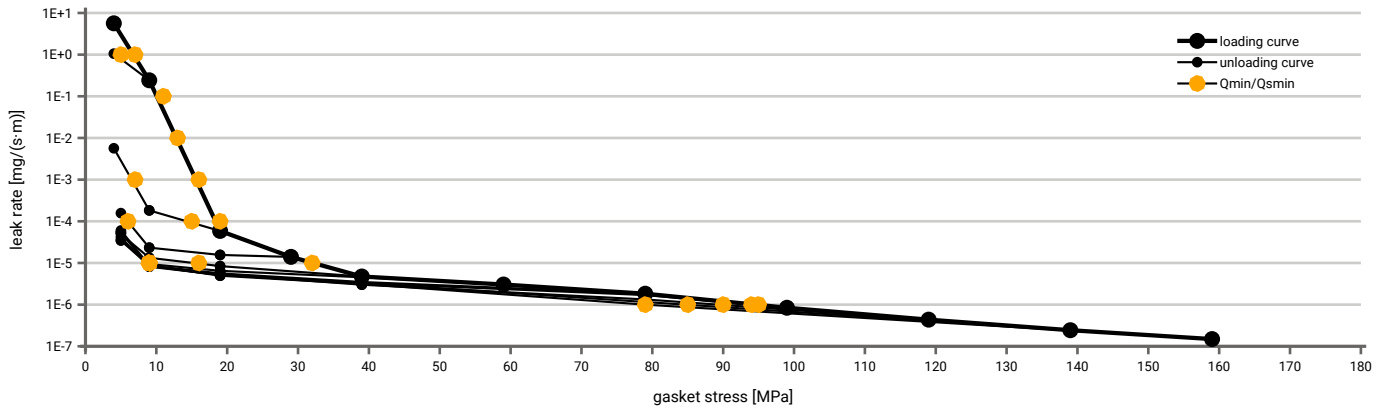
**Leakage - 23 ± 2 °C / 10 bar**




**Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 20 bar (T = 23 ± 2 °C)**

| L [mg/(s·m)] | $Q_{min(L)}$ [MPa] | $Q_{smin(L)}$ [MPa] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | $Q_A$ = 5 [MPa] | $Q_A$ = 10 [MPa] | $Q_A$ = 20 [MPa] | $Q_A$ = 30 [MPa] | $Q_A$ = 40 [MPa] | $Q_A$ = 60 [MPa] | $Q_A$ = 80 [MPa] | $Q_A$ = 100 [MPa] | $Q_A$ = 120 [MPa] | $Q_A$ = 140 [MPa] | $Q_A$ = 160 [MPa] |
| 1E+1 | 5 | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1E-0 | 8 | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1E-1 | 11 | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1E-2 | 14 | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1E-3 | 16 | | | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1E-4 | 19 | | | 15 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1E-5 | 33 | | | | | 16 | 10 | 9 | 9 | 10 | 9 | 10 |
| 1E-6 | 95 | | | | | | | | 95 | 90 | 85 | 80 |
| 1E-7 | | | | | | | | | | | | |
| 1E-8 | | | | | | | | | | | | |

**Leakage - 23 ± 2 °C / 20 bar**

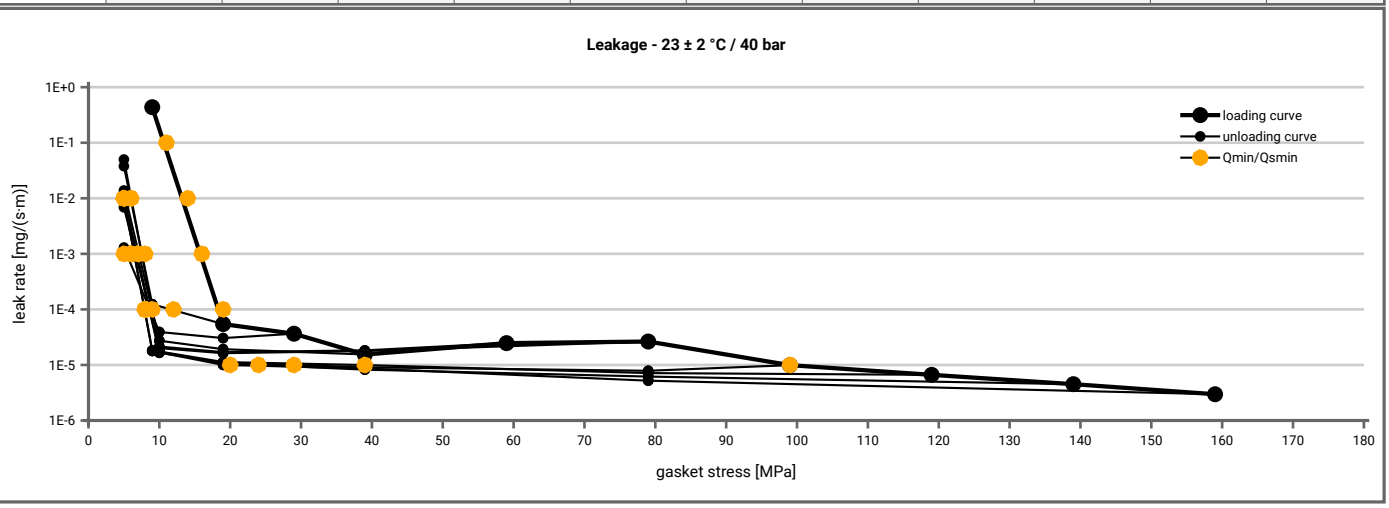



| Note: the content of darkened cells was not determined respectively is unnecessary | Rev.-No.: **2** | Creation date of this sheet: **2013-09-16** |
|---|---|---|

| Manufacturer address | Garlock GmbH, Falkenweg 1, 41468 Neuss, DE | According to **DIN EN 13555 2005-2** |
|---|---|---|
| **Product name** | Gylon® Style 3510 | |
| **Product dimensions** | 92 x 49 x 2 mm (DIN EN 1514-1 1997-8) | |

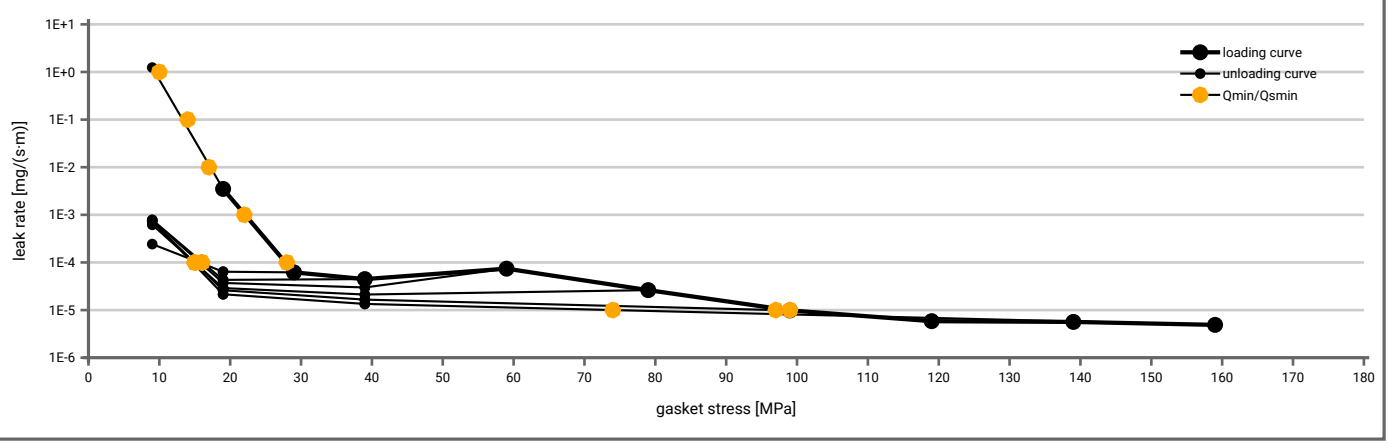
**Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 2 °C)**

| L [mg/(s·m)] | $Q_{min(L)}$ [MPa] | $Q_{smin(L)}$ [MPa] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | $Q_A$ = 10 [MPa] | $Q_A$ = 20 [MPa] | $Q_A$ = 30 [MPa] | $Q_A$ = 40 [MPa] | $Q_A$ = 60 [MPa] | $Q_A$ = 80 [MPa] | $Q_A$ = 100 [MPa] | $Q_A$ = 120 [MPa] | $Q_A$ = 140 [MPa] | $Q_A$ = 160 [MPa] |
| 1E-0 | 10 | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1E-1 | 11 | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1E-2 | 14 | | 6 | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 |
| 1E-3 | 17 | | 8 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1E-4 | 19 | | 13 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 1E-5 | 100 | | | | | | | 30 | 39 | 25 | 20 |
| 1E-6 | | | | | | | | | | | |
| 1E-7 | | | | | | | | | | | |
| 1E-8 | | | | | | | | | | | |




**Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 80 bar (T = 23 ± 2 °C)**

| L [mg/(s·m)] | $Q_{min(L)}$ [MPa] | $Q_{smin(L)}$ [MPa] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | $Q_A$ = 20 [MPa] | $Q_A$ = 30 [MPa] | $Q_A$ = 40 [MPa] | $Q_A$ = 60 [MPa] | $Q_A$ = 80 [MPa] | $Q_A$ = 100 [MPa] | $Q_A$ = 120 [MPa] | $Q_A$ = 140 [MPa] | $Q_A$ = 160 [MPa] |
| 1E+1 | 20 | 10 | 10 | 10 | 10 | 10 | 10 | | | 10 |
| 1E-0 | 20 | 10 | 10 | 10 | 10 | 10 | 10 | | | 10 |
| 1E-1 | 20 | 14 | 10 | 10 | 10 | 10 | 10 | | | 10 |
| 1E-2 | 20 | 18 | 10 | 10 | 10 | 10 | 10 | | | 10 |
| 1E-3 | 23 | | 10 | 10 | 10 | 10 | 10 | | | 10 |
| 1E-4 | 29 | | 16 | 17 | 16 | 16 | 16 | | | 15 |
| 1E-5 | 99 | | | | | | 98 | | | 75 |
| 1E-6 | | | | | | | | | | |
| 1E-7 | | | | | | | | | | |
| 1E-8 | | | | | | | | | | |

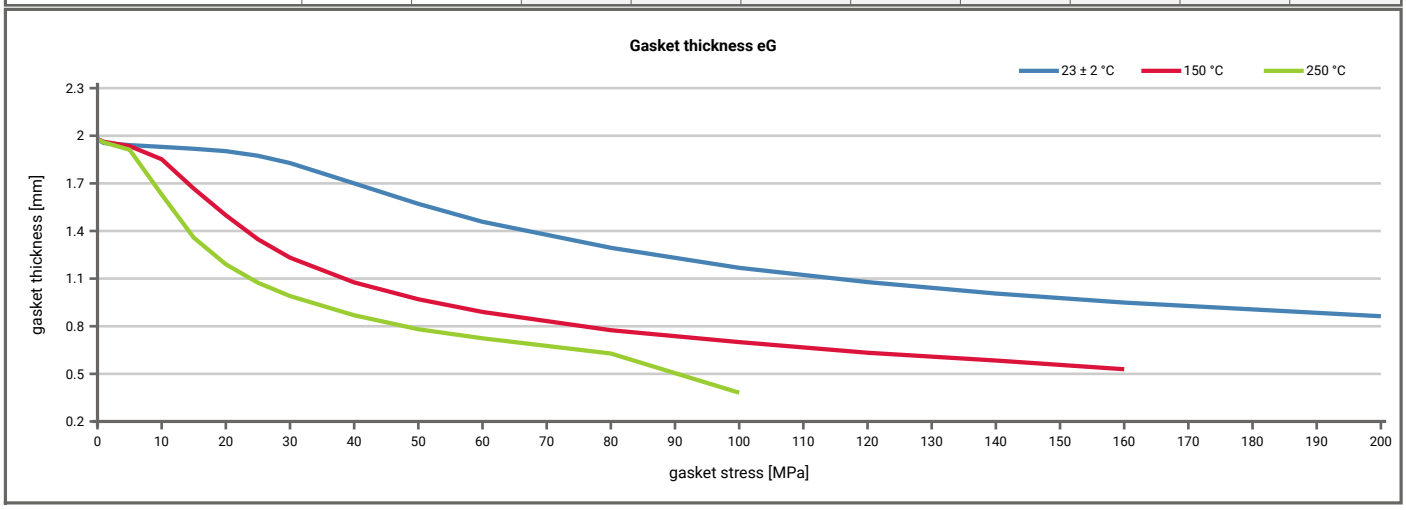



| Note: the content of darkened cells was not determined respectively is unnecessary | Rev.-No.: **2** | Creation date of this sheet: **2013-09-16** |
|---|---|---|

| | | |
|---|---|---|
| **Manufacturer address** | Garlock GmbH, Falkenweg 1, 41468 Neuss, DE | According to **DIN EN 13555 2005-2** |
| **Product name** | Gylon® Style 3510 | |
| **Product dimensions** | 92 x 49 x 2 mm (DIN EN 1514-1 1997-8) | |

| **Relaxation ratio $P_{QR}$ for stiffness $C$ = 500 [kN/mm]** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Gasket stress** | **23 ± 2 °C** | | **Temperature 1 [150 °C]** | | **Temperature 2 [250 °C]** | | | | | |
| | **$P_{QR}$** | **$\Delta e_{Gc}$ [µm]** | **$P_{QR}$** | **$\Delta e_{Gc}$ [µm]** | **$P_{QR}$** | **$\Delta e_{Gc}$ [µm]** | **$P_{QR}$** | **$\Delta e_{Gc}$ [µm]** | **$P_{QR}$** | **$\Delta e_{Gc}$ [µm]** |
| Stress level 1 [10 MPa] | 0.89 | 10 | 0.87 | 11 | 0.58 | 36 | | | | |
| Stress level 2 [30 MPa] | 0.90 | 26 | 0.50 | 126 | 0.30 | 176 | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| **$P_{QR}$ and $\Delta e_{Gc}$ at maximum gasket stress to be applied $Q_{smax}$** | | | | | | | | | | |
| **$P_{QR}$ at $Q_{smax}$** | 0.94 | 109 | 0.73 | 363 | 0.45 | 466 | | | | |
| **$Q_{smax}$** | 200 MPa | | 160 MPa | | 100 MPa | | | | | |

| **Sekant unloading modulus of the gasket $E_G$ [MPa] and gasket thickness $e_G$ [mm]** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Gasket stress [MPa]** | **23 ± 2 °C** | | **Temperature 1 [150 °C]** | | **Temperature 2 [250 °C]** | | | | | |
| | **$E_G$ [MPa]** | **$e_G$ [mm]** | **$E_G$ [MPa]** | **$e_G$ [mm]** | **$E_G$ [MPa]** | **$e_G$ [mm]** | **$E_G$ [MPa]** | **$e_G$ [mm]** | **$E_G$ [MPa]** | **$e_G$ [mm]** |
| 0 | 0 | 1.976 | 0 | 1.980 | 0 | 1.978 | | | | |
| 1 | 0 | 1.954 | 0 | 1.962 | 0 | 1.958 | | | | |
| 5 | 1883 | 1.941 | 2431 | 1.935 | 745 | 1.912 | | | | |
| 10 | 1895 | 1.930 | 644 | 1.852 | 543 | 1.630 | | | | |
| 15 | 2065 | 1.918 | 741 | 1.667 | 683 | 1.358 | | | | |
| 20 | 2509 | 1.903 | 1310 | 1.499 | 592 | 1.190 | | | | |
| 25 | 2132 | 1.874 | 1052 | 1.348 | 740 | 1.074 | | | | |
| 30 | 2400 | 1.828 | 928 | 1.232 | 767 | 0.990 | | | | |
| 40 | 2848 | 1.700 | 1097 | 1.076 | 1173 | 0.869 | | | | |
| 50 | 2676 | 1.571 | 1482 | 0.970 | 1047 | 0.781 | | | | |
| 60 | 4306 | 1.458 | 1555 | 0.890 | 1397 | 0.724 | | | | |
| 80 | 6233 | 1.294 | 1801 | 0.775 | 2256 | 0.628 | | | | |
| 100 | 5602 | 1.168 | 2901 | 0.700 | 1877 | 0.381 | | | | |
| 120 | 5747 | 1.078 | 2202 | 0.633 | | | | | | |
| 140 | 4927 | 1.006 | 4083 | 0.584 | | | | | | |
| 160 | 5562 | 0.949 | 4890 | 0.529 | | | | | | |
| 180 | 5412 | 0.906 | | | | | | | | |
| 200 | 4751 | 0.863 | | | | | | | | |

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